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Dell EMC D-PE-FN-01 Dell EMC Dell PowerEdge Foundations v2 Exam

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EMC D-PE-FN-01 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">• Maintenance: This section of the exam measures the skills of Data Center Technicians and covers practical server maintenance procedures. Topics include handling memory and expansion cards, understanding power distribution, recognizing hardware fault indicators, and applying various firmware update methods. It also touches on thermal management through cooling techniques such as air, liquid, and immersion cooling, along with proper shutdown and reboot practices.

Topic 2	<ul style="list-style-type: none"> • Introduction to Servers: This section of the exam measures the skills of Data Center Technicians and covers foundational concepts related to server characteristics and key storage components in Dell PowerEdge servers. It includes identifying server generations, interpreting server nomenclature, and understanding the purpose of hardware elements such as HDDs, SSDs, RAID controllers, BOSS, and M.2 drives. The goal is to ensure a clear grasp of server internals and their role in performance and reliability.
Topic 3	<ul style="list-style-type: none"> • Server Architecture and Roles: This section of the exam measures the skills of Server Support Engineers and focuses on understanding how various PowerEdge server types—like rack, tower, and blade servers—fit specific deployment needs. It covers interpreting server data flow, exploring storage topologies like DAS, NAS, and SAN, and understanding virtualization using hypervisors. The section also outlines how to position PowerEdge servers in edge, cloud, or core environments for use cases such as HPC, file sharing, or AI workloads.
Topic 4	<ul style="list-style-type: none"> • Security: This section of the exam measures the skills of Server Support Engineers and emphasizes the security features embedded in Dell PowerEdge servers. It includes hardware-based protections such as Silicon Root of Trust, TPM 2.0, and Secure Boot. The section also covers iDRAC's role in automated security, data protection using Self-Encrypting Drives (SEDs), and access control measures like Multifactor Authentication (MFA) and Role-Based Access Control (RBAC).
Topic 5	<ul style="list-style-type: none"> • Server Networking and Connectivity: This section of the exam measures the skills of Data Center Technicians and focuses on the fundamentals of networking services as they relate to PowerEdge servers. It includes identifying network cables and connections, and comparing different onboard network options. This knowledge is essential for establishing and maintaining server connectivity within diverse infrastructure environments.

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EMC Dell PowerEdge Foundations v2 Exam Sample Questions (Q16-Q21):

NEW QUESTION # 16

In ECC memory, how many extra bits are used for every 64-bit value to facilitate single-bit error correction, based on Hamming code?

- A. ECC adds 32 error correction bits per 64-bit data segment.
- B. ECC uses 16 parity bits for every 64-bit data value.
- **C. ECC employs 8 additional bits for every 64-bit value.**
- D. ECC uses 4 extra bits for every 64-bit value for correction.

Answer: C

Explanation:

Error Correcting Code (ECC) memory uses 8 additional bits for every 64-bit data value to detect and correct single-bit errors using Hamming code, resulting in 72-bit modules. This enhances data integrity in servers by repairing errors without interruption. Fewer

bits (4) would only detect, not correct; more (16 or 32) are unnecessary for standard single-bit correction. ECC is beneficial in PowerEdge servers for reliable operations.

Exact extract: "Why is Error Correcting Code (ECC) memory beneficial in Dell EMC PowerEdge servers? D.

Can repair errors without interrupting other server operations... Describe the Memory and Expansion cards." Reference: Dell PowerEdge Foundations v2 Exam Description (D-PE-FN-01), Topic: Introduction to Servers (28%) and Maintenance (18%).

NEW QUESTION # 17

A system administrator must access the iDRAC user interface of a Dell PowerEdge 16G server for the first time. What type of password is used by default to log in to the iDRAC UI on PowerEdge 16G servers, enhancing initial security?

- A. Enter a blank password for the initial iDRAC UI login
- B. Utilize a user-defined password set during server setup
- C. **Employ a factory-generated password found on the Service Tag**
- D. Use the legacy default "root" and "calvin" credentials

Answer: C

Explanation:

Comprehensive and Detailed Explanation From Exact Extracts: PowerEdge 16G servers use a factory-generated password for the initial iDRAC UI login, found on the server's Service Tag, enhancing security by avoiding predictable defaults like "root" and "calvin." This unique password ensures secure initial access, unlike blank or user-defined passwords set later. This aligns with modern security practices in PowerEdge servers. Exact extract: "Describe the security features in PowerEdge servers... Compare the PowerEdge Servers management applications, utilities, and licensing." Reference: Dell PowerEdge Foundations v2 Exam Description (D-PE-FN-01), Topic: Security (18%).

NEW QUESTION # 18

What is one of the primary functions of the BIOS?

- A. Update device drivers for the operating system
- B. Encrypt data stored on the hard drive
- C. **Perform the POST**
- D. Control the flow of electricity to system components

Answer: C

NEW QUESTION # 19

An engineer must locate the latest Dell Update Package for a specific PowerEdge server model running Windows Server 2022. Which initial step should the engineer take to begin this process?

- A. Contact Dell support to request the specific update package.
- B. Access the iDRAC interface of the server and navigate to the update section.
- C. Utilize OpenManage Enterprise to search for available updates for the server.
- D. **Open the Dell Support website and go to the "Drivers & Downloads" page.**

Answer: D

Explanation:

The initial step is to access the Dell Support website and navigate to the "Drivers & Downloads" page, entering the server model or service tag to locate the latest Dell Update Package (DUP) tailored for Windows Server 2022. This provides direct access to verified updates. iDRAC or OpenManage are for applying updates, not locating; contacting support is secondary. This method ensures compatibility and security in maintenance. Exact extract: "Describe different methods of updating firmware and drivers in PowerEdge Servers... Compare the PowerEdge Servers management applications, utilities, and licensing." Reference: Dell PowerEdge Foundations v2 Exam Description (D-PE-FN-01), Topic: Maintenance (18%).

NEW QUESTION # 20

What does the Dell Update Package (DUP) allow administrators to do?

- Answer: D**

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